HGB:GDM C-7 U. S. DEPARTMENT OF COMMERCE NATIONAL BUREAU OF STANDARDS WASHINGTON

December 11, 1944

Letter Circular LC-772

(Supersedes LC-666)

WEIGHTS AND MEASURES
A SELECTED DIST OF PUBLICATIONS
of the
NATIONAL BUREAU OF STANDARDS

On the following pages are listed some of the weights and measures publications of the National Bureau of Standards selected for their general interest and for their usefulness to teachers and students in pursuing weights and measures studies. Where the price is stated in the extreme right-hand column, the publication can be purchased from the Superintendent of Documents, Government Printing Office, Washington, D. C. The prices quoted are for delivery to addresses in the United States and its territories and possessions and in certain foreign countries which extend the franking privilege. In the case of all other countries, one-third the cost of the publication should be added to cover postage. Remittances should be made either by coupons (obtainable from the Superintendent of Documents in sets of 20 for \$1.00 and good until used) or by check or money order payable to the "Superintendent of Documents, Government Printing Office" and sent to him with order. Letter Circulars are obtainable, without charge, from the Bureau. Publications marked "OP" are out of print.

Copies of the Bureau's publications are available in many public libraries in large cities and in the libraries of universities and colleges throughout the country, which, as Government depositories, receive copies with the understanding that they will be kept available for consultation by the public. Most of these Government depositories also have on file a complete list of the National Bureau of Standards' publications (Circular C24 and supplements).

Letters are used to designate the several series of Bureau publications:

S = "Scientific Paper"

H = "Handbook"

C = "Circular"

M = "Miscellaneous Publication"

LC = "Letter Circular"

| 2 | | <u>Title</u> | | Series | Price |
|----|---|---|---|--------|-------|
| A | H. W. Bearce. Discusses the length of the and suggests defined in te | Sci. Pap. BS relation betw United States that the yard | aves in such a way | S535 | 5¢ |
| St | ed.) (1924). densities for | Contains tab various commo phol, petroleu | c tables. (6th les of standard n liquids, such m oils, milk, and | C19 | 15¢ |
| Ru | of the Federal Relating to the | l standard bar ne standard ba nd other dry c | ted under authority rel law. (1917). rrel for fruits, ommodities, with | C71 | 5¢ |
| Τe | sting of measur Standards. (| ring tapes at 1927) | the Bureau of | C328 | 10% |
| Τe | esting of line | standards of 1 | ength. (1927) | C332 | 10¢ |
| Su | | r the construc ndial, with eq | | C402 | 5¢ |
| St | Gould. (1935) sketch of the time system, States and of transmitting |). Gives a br development o time zone maps the world, a | orld. Ralph E. ief historical f the standard of the United list of stations nals, and other ng standard | c406 | 5¢ |
| Le | Ralph W. Smith | n. (1940). A information o | arious commodities. revision of the riginally contained | 1. 1. | 5¢ |
| Te | Describes the watches - "Cla Precision", ar improved test chronometers. | four standard ass A", "Class ad "Business P: for stop watch Includes info | E. Gould. (1941) tests for pocket B", "Railroad recision" - an nes, and a test for ormation on use and dard time and time | | 15¢ |

| Testing of glass volumetric apparatus. Elmer L. C434 Peffer and Grace C. Mulligan. (1941) Describes tests as conducted at National Bureau of Standards. | 10¢ |
|---|-----------------|
| Weights and measures administration. Ralph W. H26 7 Smith. (1941). Discusses the subject of weights and measures supervision. Includes model State law on weights and measures; Federal weights and measures laws, and regulations issued thereunder; and recommendations for standards and equipment. (Bound in cloth) | 5¢ |
| | In |
| Specifications, tolerances, and regulations for commercial weighing and measuring devices. (Correction Sheets for Handbook H29 are regularly issued to keep the material up to date; these are available without cost upon application to the National Bureau of Standards.) | 60¢ |
| | In ess. |
| The international metric system. (1936). Chart M3 giving graphic comparisons between the units of the metric system and the customary system of weights and measures. (Size, 28 1/2 by 44 inches, printed in colors.) | 40¢ |
| Graphic comparison of screw thread pitches. H. W. Bearce. (1922). Gives a graphic and also a tabular comparison of common screw thread pitches - threads per inch and corresponding pitch in millimeters, and common metric pitches and corresponding threads per inch. A wall chart, printed on heavy paper, for shop use. M49 | 5¢ ⁻ |

| <u>Title</u> | Series | Price |
|---|--------|-------|
| History of the standard weights and measures of the United States. Louis A. Fischer. (1925). (Illustrated) | M64 | 15¢ |
| Standard time conversion chart. Ralph E. Gould. (1931). Time at any other part of the earth may be read directly from the chart. (Heavy cardboard with movable disk; size, 8 by 10 1/2 inches.) | M84 | OP |
| Weights and measures references. Ralph W. Smith. (1930). Contains references to published material relating to weights and measures standards and administration, including an index to the reports of the National Conference on Weights and Measures, from the first to the twenty-first, inclusive. | , | 10¢ |
| Testing equipment for large capacity scales for the use of weights and measures officials. Ralph W. Smith. (1930). | M104 | 10¢ |
| Units of weight and measure - definitions and tables of equivalents. (1936). Contains tables of interrelation of units of measurement in the customary and metric systems; also shows graphic comparison of screw thread pitches. | M121 | 15¢ |
| Weights and measures in Congress. Sarah Ann Jones. (1936). Presents a chronological account up to 1838 of the steps taken to secure uniformity in weights and measures in the United States, including an historical summary of proposals made in or to Congress on the subject. | M122 | OP |
| International metric system of weights and measures. (1932). Gives a synopsis of the system showing the derivation of the primary units, their interrelation, the method of forming the multiples and submultiples, the abbreviations used, comparisons of the units with those of our customary system of weights and measures, and tables of equivalents from 1 through 9. The status of the metric system in the United States is shown by Congressional enactments and departmental orders. | М135 | 5¢ |
| Time zone map of the United States and adjacent parts of Canada and Mexico. (Revised 1936). Printed in light blue on white background; the locations of the cities are indicated in black lettering and the time-zone boundary lines appear in red. (Size, 20 by 30 inches.) | M155 | 10¢ |

| Na i | Title | | | | Series | Price |
|---|--|---|---|--|---|-------|
| Index to the reports of the National Conference on Weights and Measures from the first (1905) to the thirty-first (1941), inclusive. Ralph W. Smith and William T. McCormac. This publication supersedes M103 insofar as the index to the Reports of the National Conference on Weights and Measures is concerned, but does not contain the other material described in connection with that publication. | | | | M172 | 10¢ | |
| The following listed Miscellaneous Publications, representing the available reports of the National Conference on Weights and Measures, attended by representatives of the various States, and held at the National Bureau of Standards in the years indicated, may be obtained from the Superintendent of Documents. For further information see Miscellaneous Publication M172. | | | | | | |
| Series Ye | ear P | rice | Series | Year | Price | |
| M12 19 M14 19 M41 19 M43 19 M48 19 M51 19 M55 19 M59 19 | 910 914 916 919 920 921 922 923 924 925 | OP OP 35¢ 20¢ 20¢ 20¢ 30¢ 35¢ 50¢ | M80° M87 M101 M116 M129 M157 M159 M161 M164 M167 M170 | 1927 1928 1929 1930 1931 1936 1937 1938 1940 1941 | 456 550 500 500 150 555 555 555 555 555 555 | |
| of the princ metric equi- and fraction converting o | ents (tr circula cipal tr valents ns of an distance | | d). (1933 yard dista It also g et, inches may be use n field ev | nces ives d in ents | LC376 | Free |
| | neral in | ass and time formation on ngth, mass a | the units | | LC449 | Free |
| money) usefu countries w | nversion ul to mo ith note | reights and mand tables (oth otorists tour es on brake partances, and | er than foing in for erformance | r eign | L0517 | Free |

| <u>Title</u> | Series | Price |
|--|--------|-------|
| Policy of the National Bureau of Standards with regard to tests for agencies outside the Bureau. (1939). States conditions under which tests can and cannot be made for private firms or individuals. | L0544 | Free |
| Timekeeping through the ages. (1940). Describes in simple language the development of time measuring instruments from the primitive sundial to the electric clock. | L0600 | Free |
| Weights of coal. (1940). Gives space occupied by a given weight of coal. | LC623 | Free |
| Losses of gasoline in storage and handling. (1941). Discusses losses from evaporation, thermal expansion, and the use of faulty measuring devices. | LC637 | Free |
| List of weights and measures offices of the States and District of Columbia. (1941). Gives the official designation of each office supervising weights and measures matters. | L0650 | Free |
| Specifications for the manufacture and installation of four-section and of two-section, knife-edge railway track scales. An engineering purchase specification covering the types of scales mentioned in the title. (1941). | LC662 | Free |
| Specifications for the manufacture and installation of motor-truck, built-in, self-contained, and portable scales. An engineering purchase specification covering the types of scales mentioned in the table. (1941). | LC663 | Free |
| Units and systems of weights and measures. Presents in simple traguage some of the many aspects of the general subject of weights and measures that should be considered whenever specific questions in this field are under consideration. (1942). | LC681 | Free |
| General tables of weights and measures. Gives tables of United States customary weights and measures, metric weights and measures, interrelation of units of measurement, and tables of equivalents. (1942). | LC682 | Free |

| <u>Title</u> | Series | Price |
|---|--------|-------|
| Gages (dimensional): Publications by the staff of the National Bureau of Standards. (1943) | LC723 | Free |
| Bibliography on the measurement and gaging of gears. (1943). | LC728 | Free |
| Report on railway track scale testing service of the National Bureau of Standards, fiscal year 1943.(1943). | LC729 | Free |
| Modern books on horology. A list of references to books on watches, clocks, and time-measuring instruments. (1944). | LC766 | Free |
| Expanded table of weights per U. S. gallon and weights per cubic foot of sugar (sucrose) solutions at 20°C. | L0770 | Free |

. * 1 .